

AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions and listings of claims in the application.

LISTING OF CLAIMS

1. (CURRENTLY AMENDED) A gene fragment comprising, in an upstream to downstream order the operatively linked regions (1) a first inverted terminal repeat[[s]] (ITR) of adeno-associated virus; (2) an α -actin gene promoter of a golden zebrafish α -actin promoter; (3) a gene encoding a red fluorescence gene product DsRed; (4) SV40 poly A and (5) a second inverted terminal repeat[[s]] (ITR) of adeno-associated virus.

2. (CANCELLED)

3. (CURRENTLY AMENDED) A method of producing an adult golden zebrafish with systemic red fluorescence comprising:

- (a) constructing a plasmid including a first ITR, a CMV promoter, a gene encoding a fluorescent gene product gene encoding DsRed, S40 poly A and a second ITR;
- (b) replacing the CMV promoter with an α -actin gene promoter of golden zebrafish to produce a new plasmid construct in which the α -actin gene promoter is operably linked to the gene encoding a fluorescent gene product gene encoding DsRed;
- (c) linearizing the new plasmid construct;
- (d) microinjecting the linearized new plasmid construct into fertilized golden zebrafish eggs to obtain microinjected eggs;
- (e) incubating the microinjected eggs for at least 24 hours to form embryos;
- (f) selecting an embryo exhibiting red fluorescence; and